

**NSDI Cooperative Agreements Program
Metadata Training & Outreach Project
Final Project Report**

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Project Narrative:

The Maine Office of Geographic Information Systems (MEGIS) has proposed to guide and assist the creation of FGDC compliant metadata for eighteen statewide data layers assisting six public sector entities with metadata outreach and training.

All geospatial data and metadata contributed to the Maine GeoLibrary is stored and served by MEGIS using ArcSDE and a State of Maine Oracle production environment administered cooperatively with the Maine's Bureau of Information Services. MEGIS uses Intergraph's Spatial Metadata Management System (SMMS) software for metadata creation and management. The SMMS tool outputs FGDC compliant .txt, .html, .sgml, and .xml formats to a variety of data and metadata distribution points. Platform independent SMMS is database supported and provides FGDC compliant metadata to: users of Maine's wide area network through ArcSDE ArcCatalog metadata tools; for search, evaluation, location, data association, and distribution through the Maine GIS Internet Data Catalog <http://megis.maine.gov/catalog/> ; to the Z39.50 registered FGDC National Spatial Data clearinghouse at <http://clearinghouse3.fgdc.gov/> ; to internet map services using Metadata Explorer and ArcIMS <http://megisins.state.me.us/website/orthomap/> ; and for harvest, in .XML format, by OpenGIS Web Map Services (WMS 1.1.1) <http://megisins.state.me.us/wmsconnector/com.esri.wms.Esrimap/WMSFramework?request=getcapabilities&service=WMS&version=1.1.1> .

Contributors to the Maine GeoLibrary use a variety of software products to work with geospatial data and to create FGDC compliant metadata: SMMS, those available through ArcGIS ArcCatalog, as well as free metadata tools like Corpsmet95 for ArcView 3.x users. Cooperating agencies are both formally and informally organized through Service Level Agreement and through the Maine Library of Geographic Information (GeoLibrary) <http://www.maine.gov/geolib/> to sustain activities for publication and documentation of geospatial data with FGDC metadata.

Metadata training and outreach assistance:

MEGIS staff is available for on-site demonstrations, assistance and hands-on training in content development of FGDC metadata. MEGIS also makes available, to participating agencies, in-house work stations with SMMS licenses. MEGIS staff is on hand for technical assistance with metadata creation and works with each contributor to complete and publish geospatial data and metadata.

An article on the 2004 FGDC Cap Grant was published in the Maine Information Systems Technology (MIST) newsletter

http://www.maine.gov/newsletter/jan_feb_2005/jan_feb_2005.htm and on the Maine GIS Users (MEGUG) website <http://www.megug.org/MEGUG/fyi.html> . The article provides basic information about FGDC metadata, describes MEGIS role in outreach and training, and extends an invitation to Maine GIS users to contact MEGIS for assistance with FGDC metadata.

Maine GIS has adopted FGDC metadata as documentation standard. Information on the Maine GIS FGDC initiative, including links to FGDC, other resources, free tools, the CSDGM workbook, citation, source, thesauri and keyword information has been published at <http://megis.maine.gov/standards/megisfgdc/megisfgdc.htm> .

6 out of 6 agencies listed in the grant proposal have participated in metadata outreach and training:

Maine GeoLibrary
Maine State Planning Office
Maine Public Utilities Commission
Maine Department of Labor
Maine Secretary of State
Maine Department of Inland Fisheries and Wildlife

9 other agencies have been assisted:

Maine GIS Executive Council
Maine Department of Conservation
Maine Department of Environment Protection
Maine Department of Marine Resources
Maine Department of Health and Human Services
Maine State Archives
University of Maine
Natural Resources Conservation Service
National Oceanographic and Atmospheric Administration

All but 4 data layers listed in the grant proposal have been documented with FGDC. The layers are: high resolution orthoimagery, 10 meter digital elevation models, conservation lands, labor market areas, Maine house districts, Maine senate districts, flood insurance rate maps, telephone service areas, electric service areas, cell phone towers, school districts, impoundments, parcels, municipal growth zones, and land use/.

Maine Department of Inland Fisheries and Wildlife does not plan to make BIOLOGICAL CONSERVATION DATA, DEER WINTERING AREAS, TIDAL WATERFOWL HABITAT, COASTAL BUFFERS available for distribution outside the WAN and further assistance with FGDC metadata documentation for these specific layers will not be required.

MEGIS finds the use of metadata for search, evaluation, cataloging, and data management has strongly supported its collaboration with Maine GIS users and developers to share geospatial data, and to contribute to the Maine GeoLibrary and the National Spatial Data Infrastructure. MEGIS will continue to assist all Maine GIS users who contact MEGIS for technical support in metadata creation, content development, and geospatial data sharing.

Work needs to continue at MEGIS to make the process of metadata creation, update, publication and maintenance more enterprise oriented. Efforts to make a common environment available, add a data dictionary, share data sources, citations, thesauri, and keyword information, must build on the base of knowledge established and supported by the FGDC CAP Grant 2004 Metadata Training and Outreach Assistance. Development of technical skills for the implementation of an enterprise approach to metadata would benefit everyone. Metadata must continue to accurately represent geospatial data content over time to protect the value of our investments in data and in metadata outreach and training.

20 other new data layers have been documented or updated with FGDC metadata

INDEX_1F
INDEX_2F
INDEX_FF

15
agencies
assisted

15 layers
documented